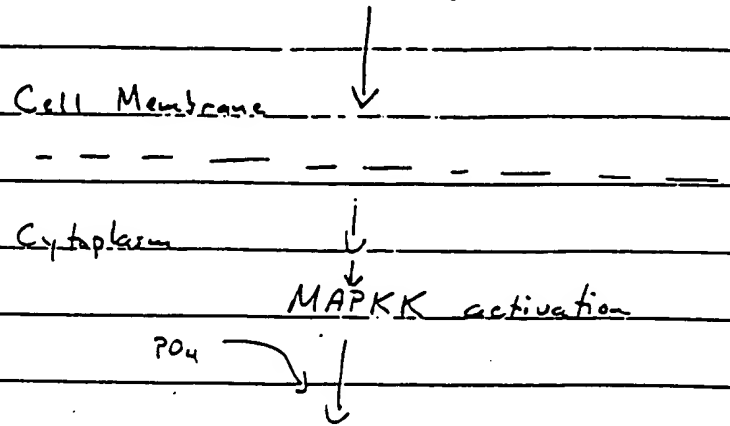


Figure

## Extracellular Stimuli

(Mitogens, Stress Signals, etc.)



## MAPK activation

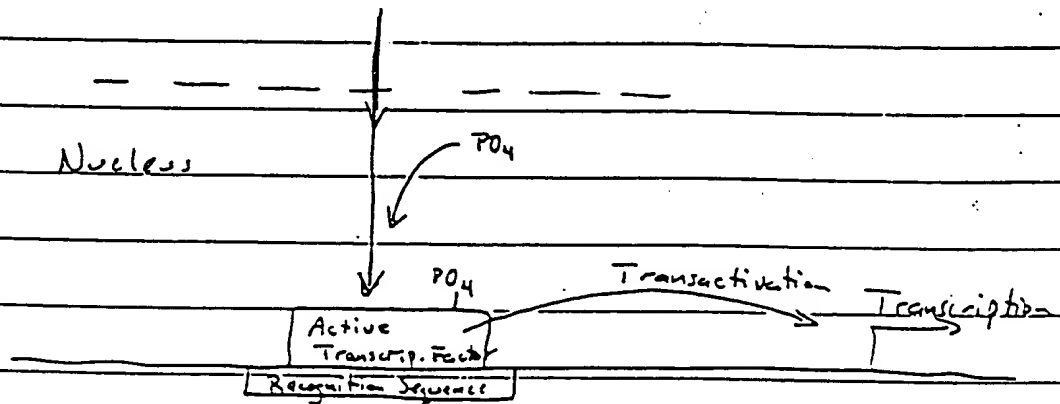


Figure 2

Monitoring Pathway - Specific Signal Transduction

Transcriptional Plasmid + Reporter Plasmid + Gene of Interest Plasmid  
 DBD: Retinoyl specific AD - 5x DBD - Reporter Gene - Promoter - Gene of Interest

Transfected C-Transfect

Gene Product of Interest

Trans-activation

DBD AD

5x DBD

Regulatory Site

Reporter Gene

09037650.001.00

Common

Figure 3

### Selection of Stable Reporter Cell Lines

Reporter Construct (w/ linked DBD element)



Stably transfect



Screen for clones with low background  
of Reporter activity and strong  
response to DBD-bearing activator(s)



"Stable Reporter Cell Line"



Stably transfect with fusion  
transactivator plasmid



Screen for clones with strong  
response to pathway-specific  
upstream activator(s)



"Pathway-Specific Stable Reporter Cell Line"

00637650-031100

Figure 4

#### 4.1.1. pFR-Luc Plasmid



#### Sequence of GAL4 Binding Element in the pFR-Luc Plasmid

```

GT CGGAGTACTGTCCTCCG AG CGGAGTACTGTCCTCCG
AG CGGAGTACTGTCCTCCG AG CGGAGTACTGTCCTCCG
AG CGGAGTACTGTCCTCCG AG CGGAGACTCTAGAGGG
TATATATGGATCCCCGGGT AC CGAGCTCGAATTC--
--CAGCTTGGCATTCCGGTACTGTTGGTAAATG--Luciferase
  
```

001100-0592E960

# 4.1.4. pFA-CMV Plasmid

## pFA-CMV Plasmid

*Bam*HI | *Srf*I | *Sma*I | *Eco*RI | *Xba*I | *Hind*III | *Pst*I | *Sac*I | *Kpn*I | *Bgl*II  
 GTA TCG CCG GGA TCG GCG CGG GCT GGA ATT CTA GAA GCT TCT GCA GAG CTC GGT ACC AGA TCT TGA ATA AGT AG  
 V S P G S G R A G I L E A S A E L G T R S . . .

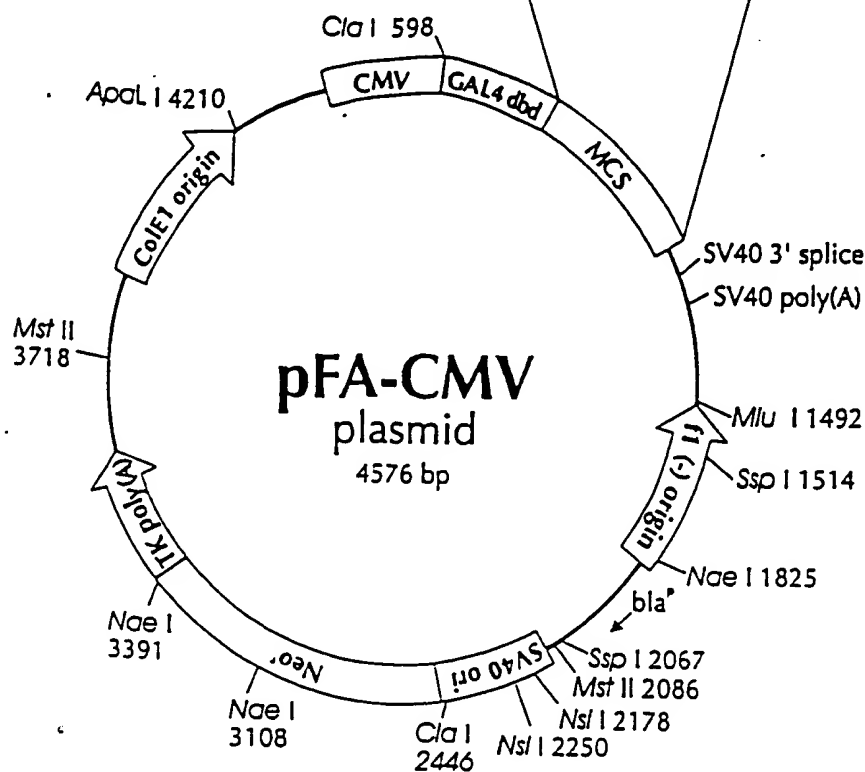


Figure 5

00637650-081100

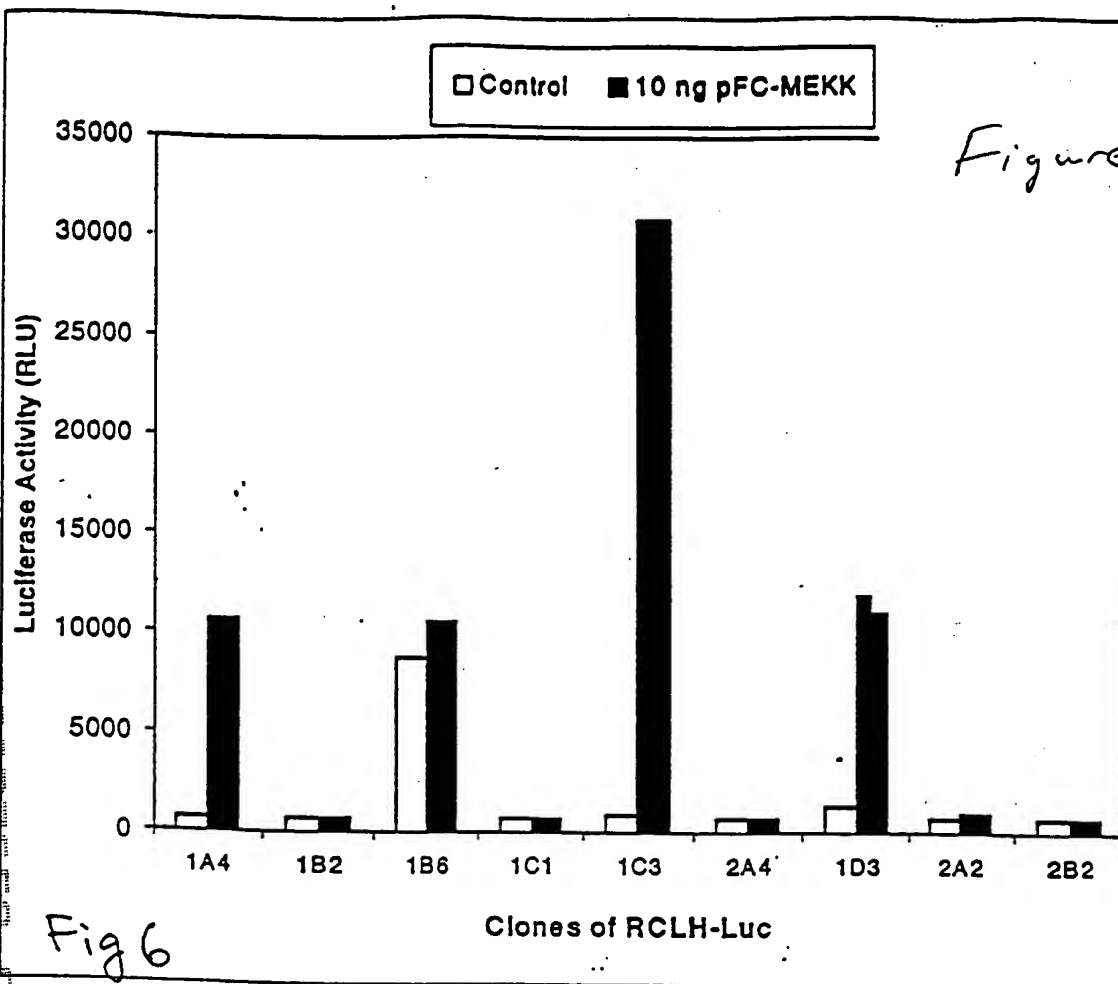
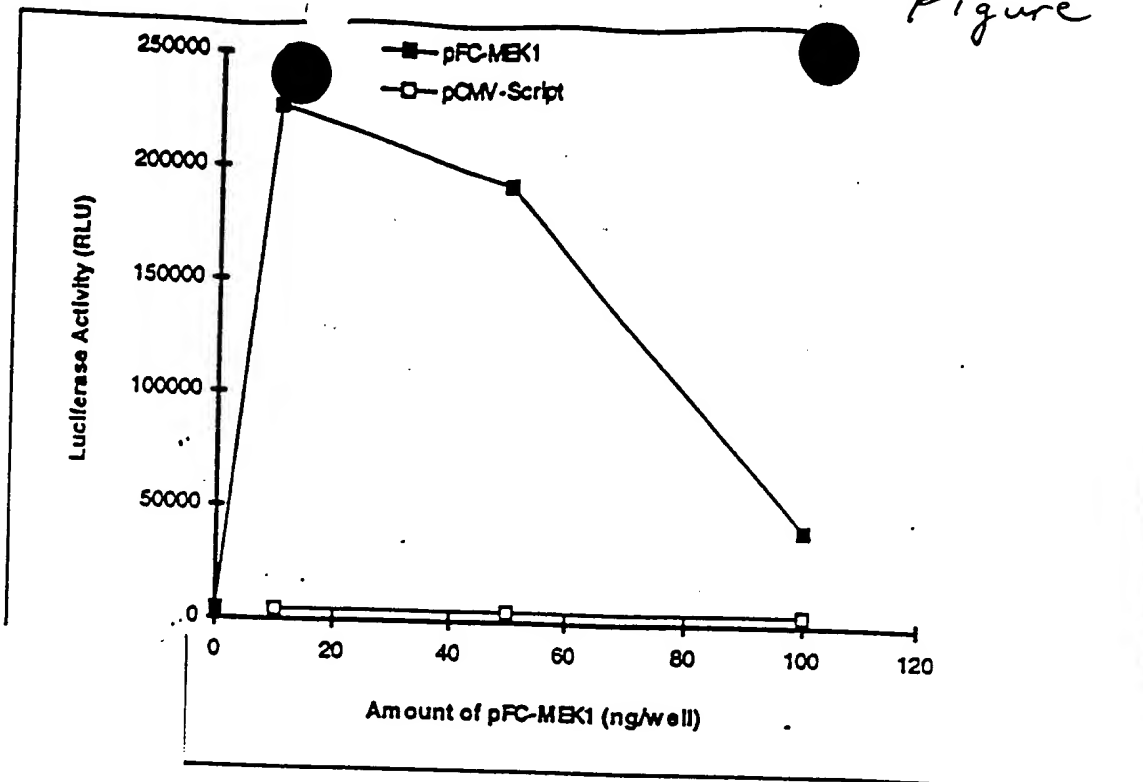


Figure 7



00T80"059ZE960

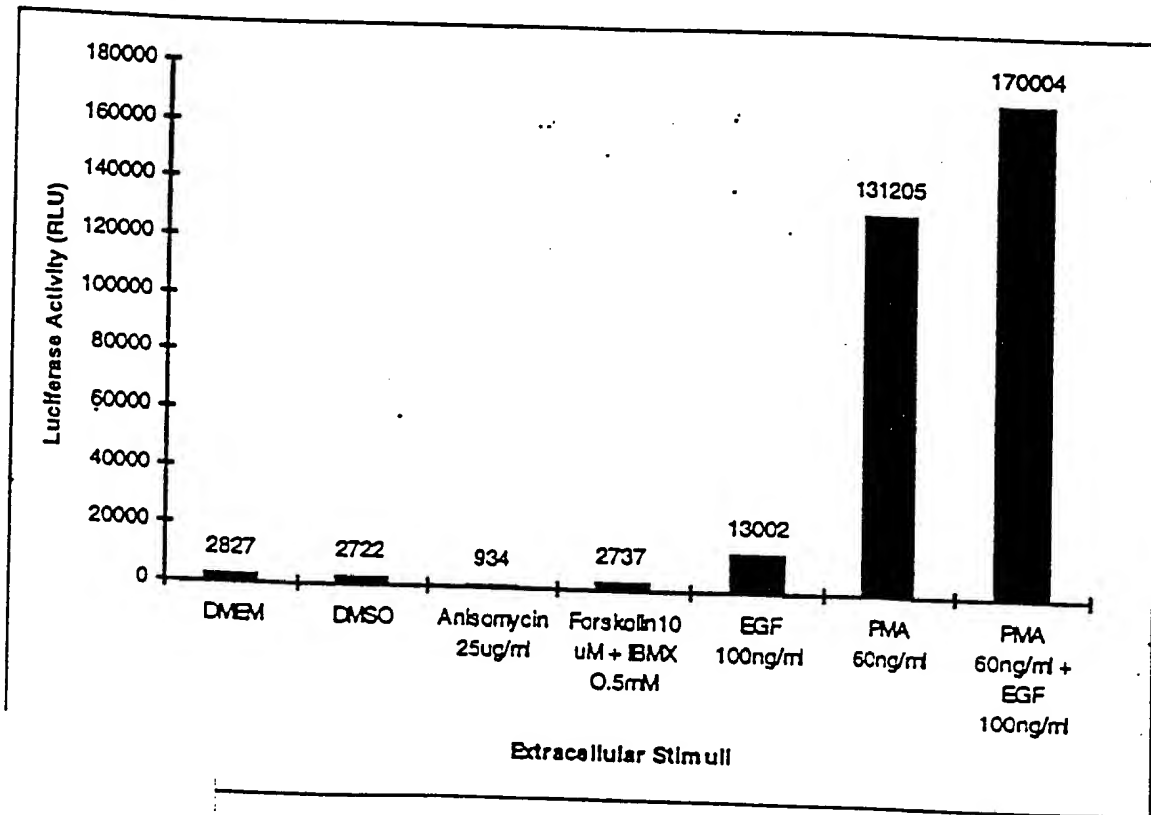
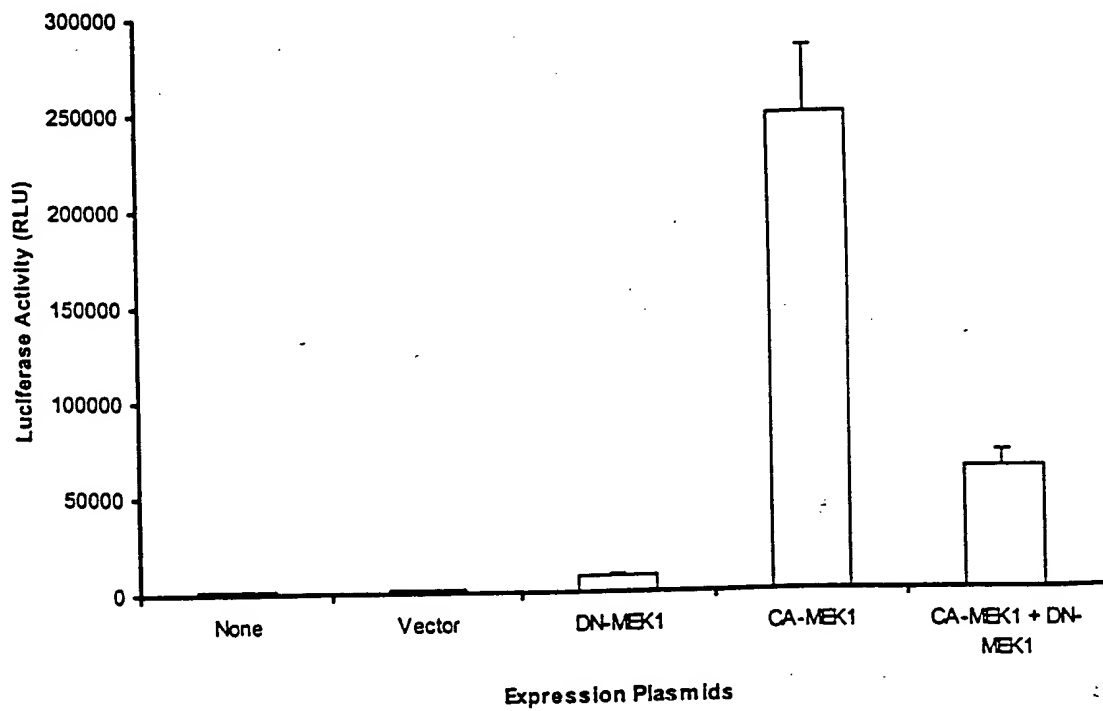


Figure 8

09637550.081100

Figure



118/

Figure 9



007780-0592560

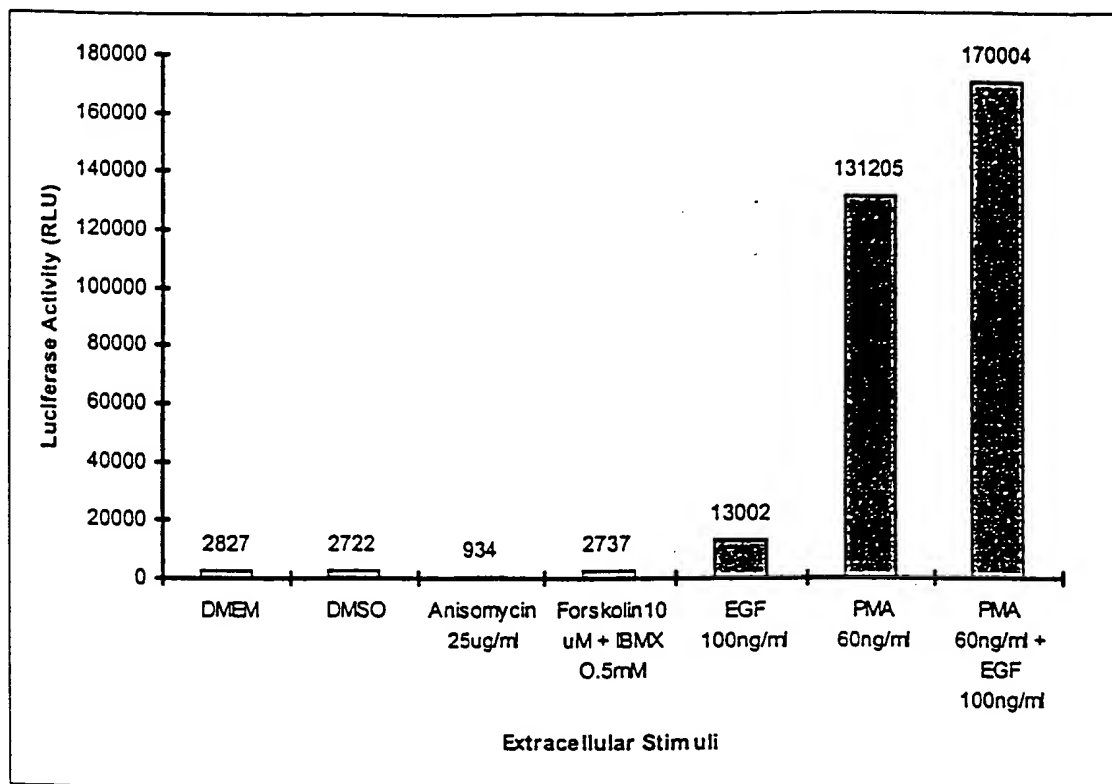


Figure 10

DOT180-0592E960

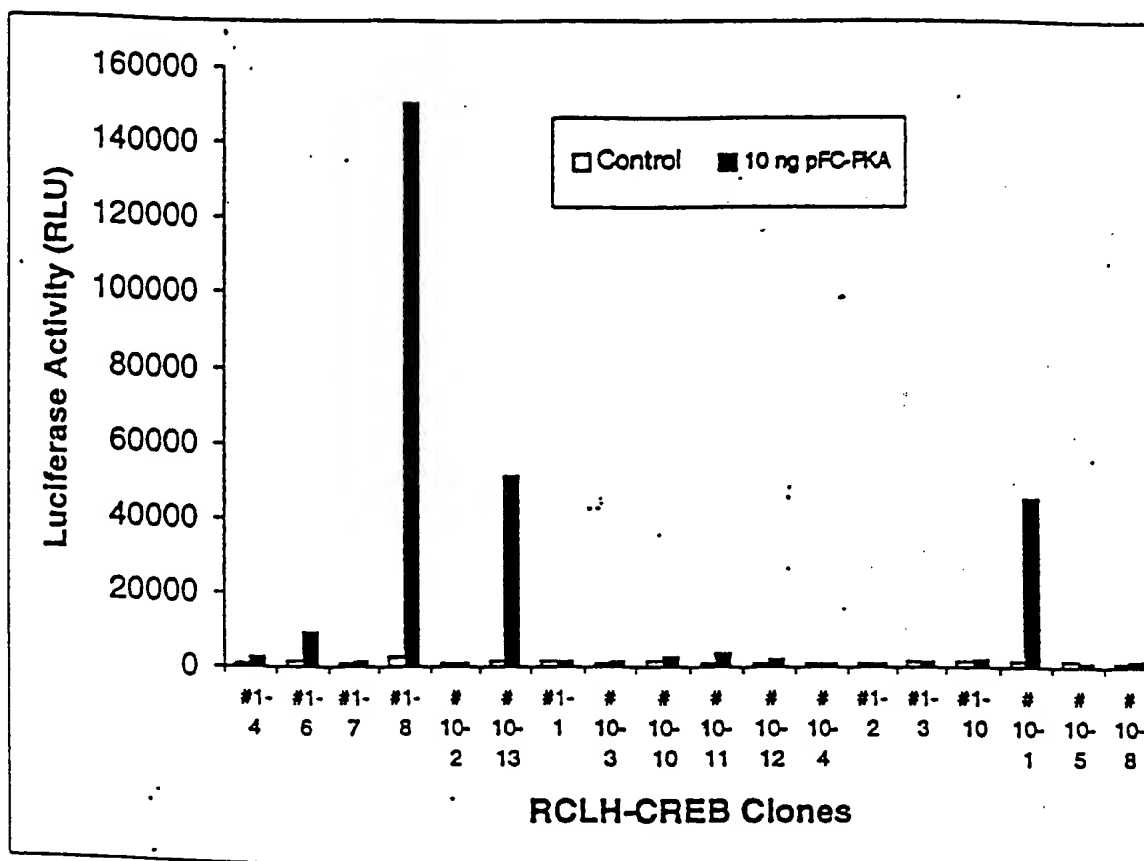


Figure 11

Figure 12

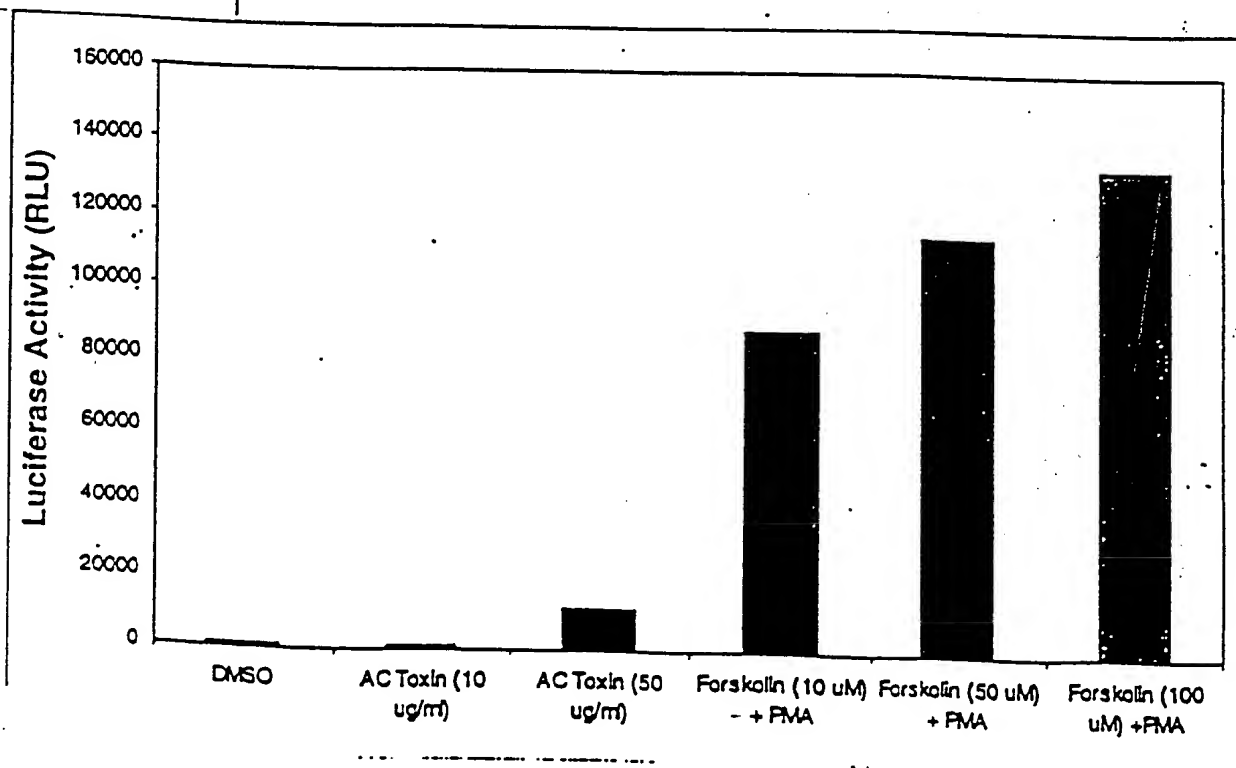
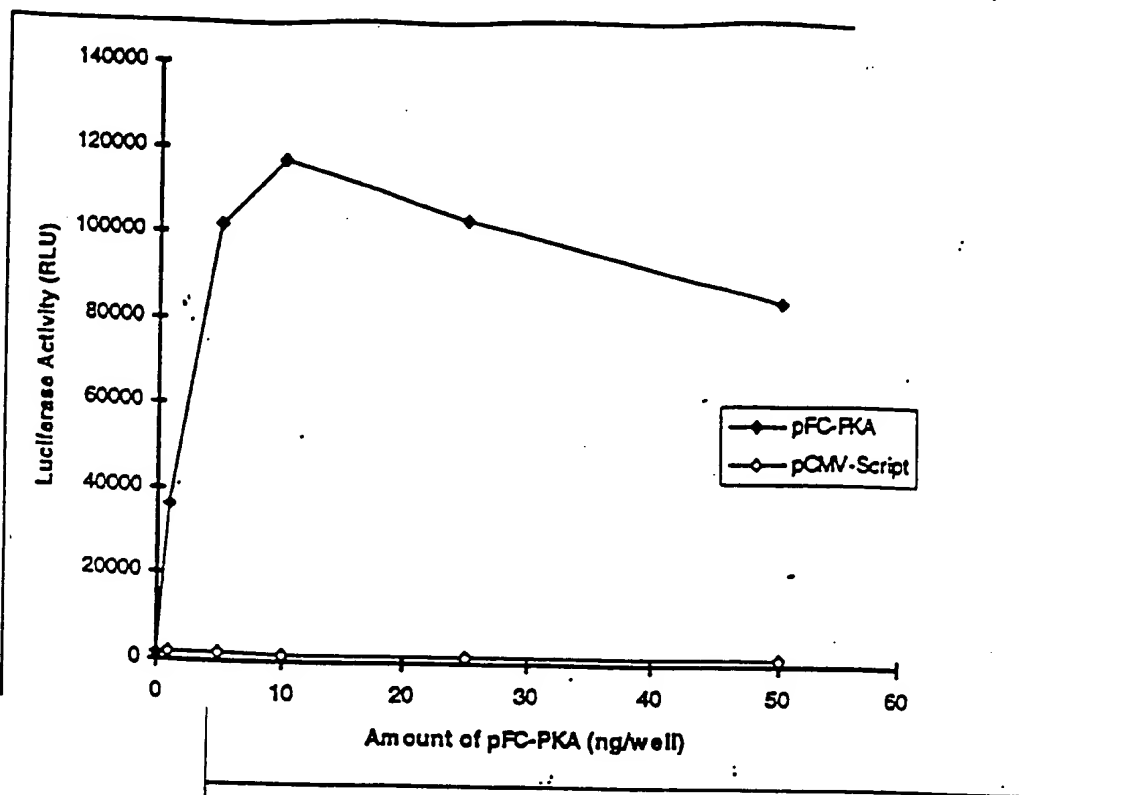


Figure 13

001120-0594960

DOTTED 0594E960

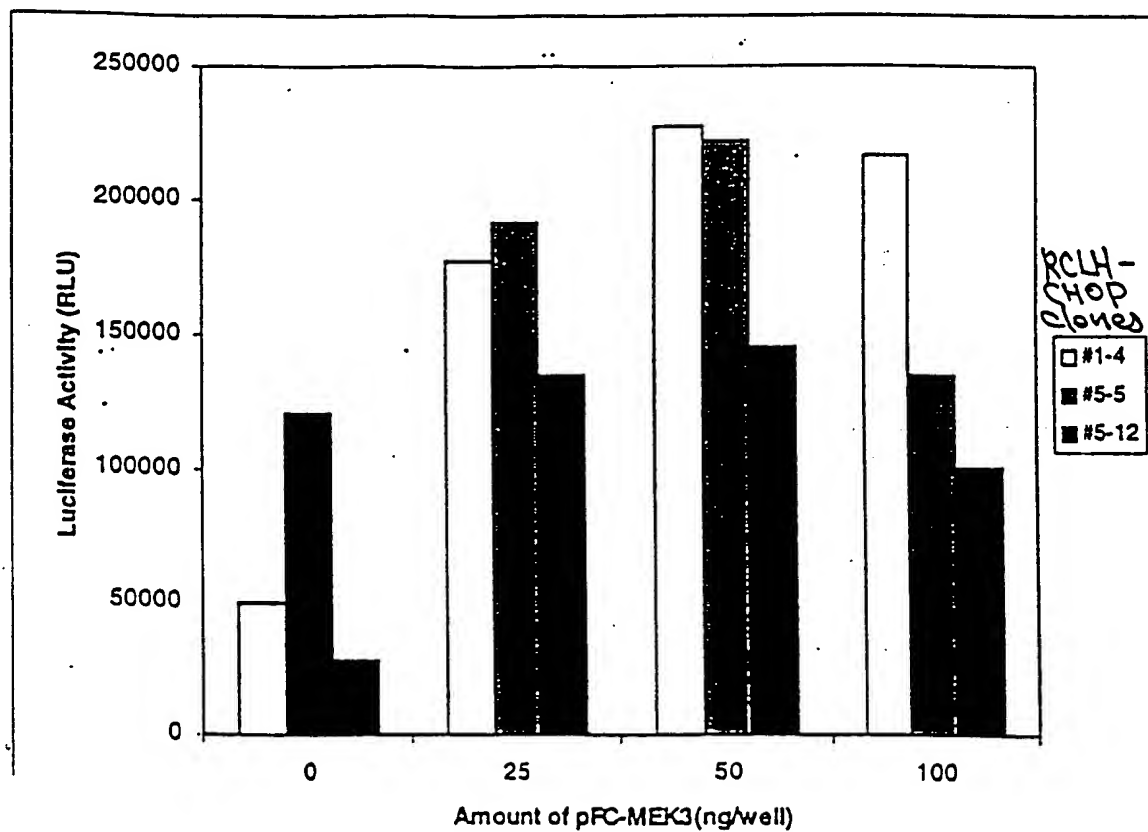


Figure 14

007480-0594560

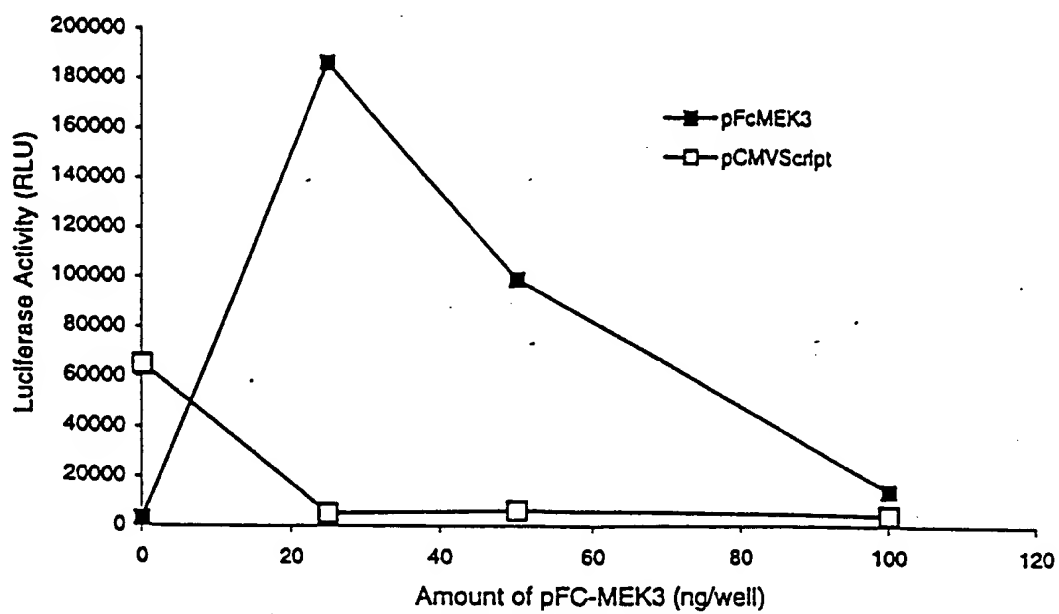


Figure 15

007780-0597E960

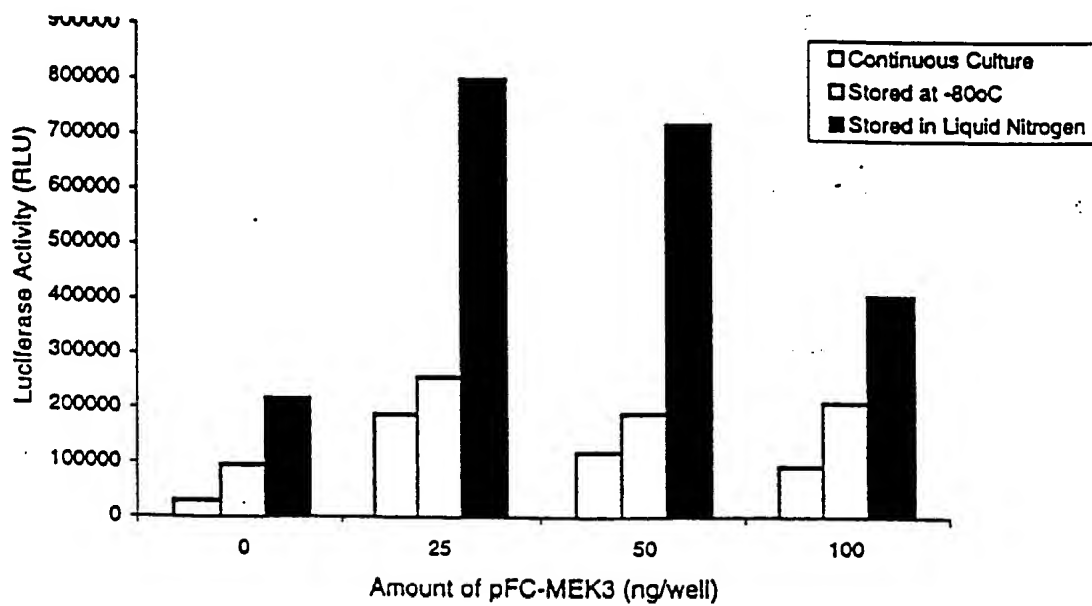


Figure 16

007780-05926960

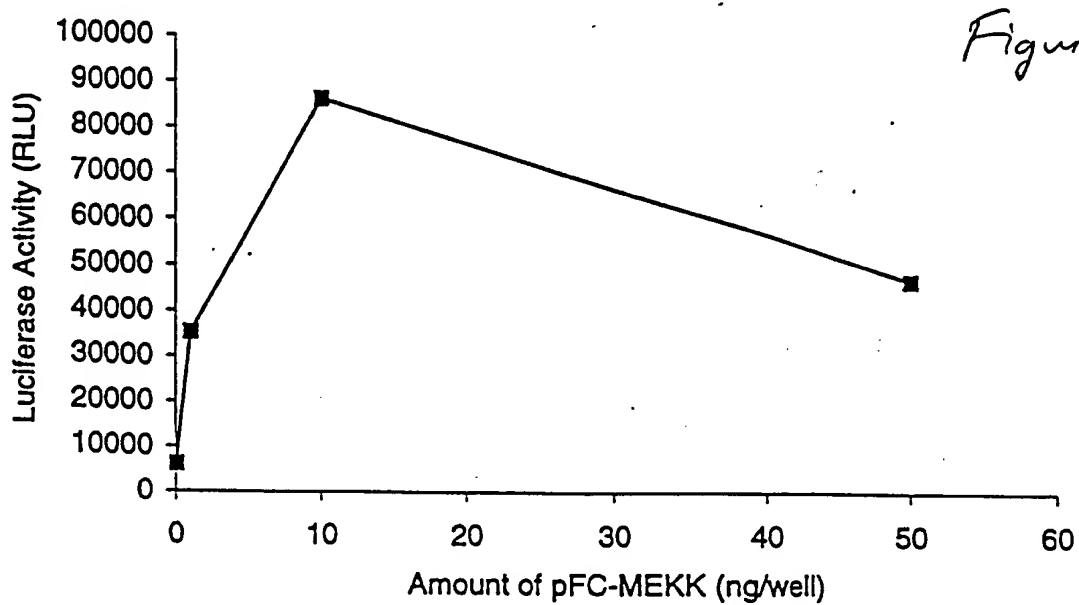
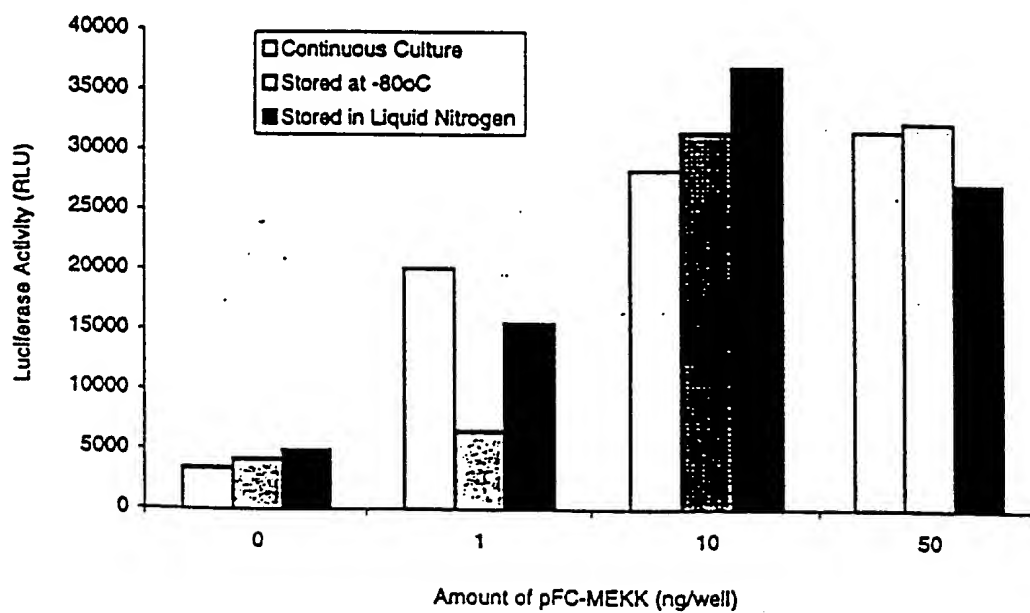


Figure 17

Figure 18





00T80"0594E960

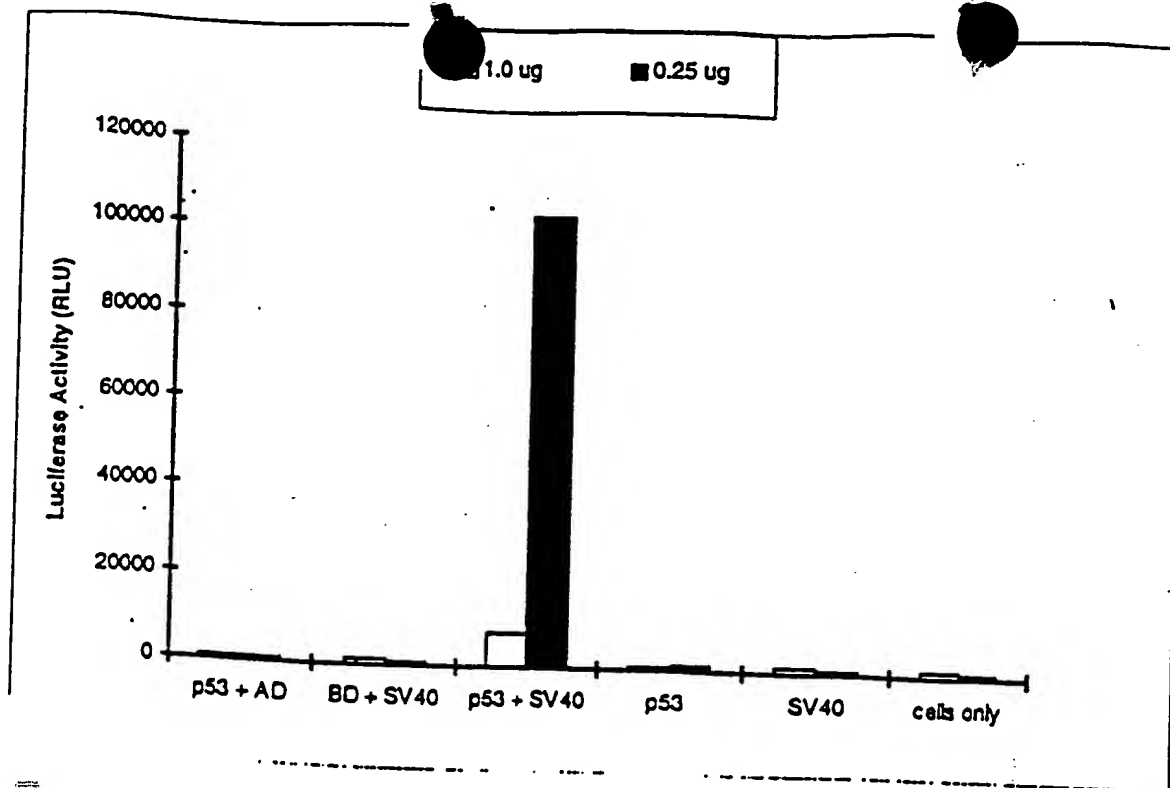


Figure 19